

PROCEDURE FOR CONTROLLING THE USEFUL LIFE OF THE GAS TURBINES OF A PLANT

Abstract

- 10 Procedure for controlling the useful life of the gas turbines of a plant by means of a production plant (10) equipped with a series of production trains (15) and an auxiliary gas generator group (40). Each production train (15) is in turn equipped with a series of gas turbine groups (20), each of which in turn includes a gas generator. The procedure comprises the following phases:
- 15 a) creating a succession (20', 20'', 20'''...) of gas generator groups of gas turbines (20) to be subjected to maintenance;
- 20 b) substituting the first gas generator group of gas turbines (20') of the succession (20', 20'', 20'''...) with the auxiliary gas generator group (40), to keep the production plant (10) functioning almost continuously;
- c) controlling the first substituted gas generator group of gas turbines (20'), by subjecting it to ordinary maintenance operations;
- 25 d) substituting the second gas generator group of gas turbines (20'') of the succession (20', 20'', 20'''...) with the first controlled gas generator group of gas turbines (20');
- 30 e) controlling the second substituted gas generator group of gas turbines (20''), by subjecting it to ordinary maintenance operations;
- f) repeating said phases b), c) d) and e) for all the gas generator groups of gas turbines (20) of the succession (20', 20'', 20'''...) until all the gas generator groups of the gas turbines (20) of the plant (10) have been subjected to control and maintenance.
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